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20 October 1964
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MEMORANDUM FOR: Chief, Ballistic Missile and Space Division, OSI

ATTENTION:

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THROUGH: Chief, Requirements Branch, Reconnaissance Group, CGS

FROM: Chief, CIA/PID (NPIC)

SUBJECT: Photo Analysis of the Ulan Ude FLIM FLAM Tracking Station

REFERENCES: (a) Requirement C-SI-3-80,659
(b) CIA/PID Project C 1397-63
(c) NPIC/R69/64

1. This memorandum is a partial response to your requirement dated 4 October 1963 requesting a detailed photo analysis of each FLIM FLAM tracking facility located within the USSR. This memorandum covers only the Ulan Ude FLIM FLAM Tracking Facility.

2. The Ulan Ude FLIM FLAM Tracking Facility is located at 51-52-20N 107-55-40E, 12.5 nautical miles east-northeast of the town of Ulan Ude. It consists of a main secured building area in which there are approximately 45 buildings, two small unidentified secured areas and a communications antenna field. Two of the buildings within the main secured building area are believed to be tracking antenna buildings (Attachment 1, Items 1 and 2).

[redacted] dated September 1964 has provided clear, good quality photography of the Ulan Ude area from which the following significant items can be described. (The letters and numbers are keyed to the attached line drawing.) Mensuration data was provided by TID/NPIC.

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Item A. Tracking Antenna Buildings

Building 1 is approximately 65 by 75 by 25 and Building 2 is 85 by 80 by 25. A dome approximately 60 feet in diameter is positioned on top of Building 1. Another dome approximately 50 feet in diameter is positioned on the ground near Building 2. These two tracking buildings are spaced 485 feet apart from center to center. The perpendicular bisector of a line joining the two buildings lies on an azimuth of 130/310 degrees. The buildings, although parallel to one another, are offset from a perpendicular to a line passing through the two buildings.

GROUP 1
Excluded from automatic
downgrading and
declassification

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Item B. Communication Antennas

There are approximately nine probable fishbone receiving antennas located on the east side of the main secured area. The scale and quality of the photography precludes obtaining the dimensions of the antennas; however, the general antenna orientations will be submitted to you under a separate memorandum covering all the HF communication facilities associated with the FLIM FLAM tracking facilities.

Item C. A pair of masts are located approximately 840 feet southwest of Tracking Building 2 within a separately secured area.

Item D. An excavation approximately 650 feet long is located south of the main secured building area.

Item E. An unidentified secured area is connected to the main secured building area by a probable cable line.

The following is a chronological listing of KEYHOLE photographic missions over Ulan Ude. What can be observed on each mission is so indicated.

Observation

Haze and cloud cover precludes interpretation.

Clear but of poor quality. Tracking buildings observed. Main secured building area contains approximately 25 buildings. * Areas C and E observed. Possible clearing for communications field.

Cloud cover precludes interpretation.

Haze. No apparent change.

Poor quality. No apparent change.

Haze, identification only.

Cloud cover precludes interpretation.

Clear. Main secured building area expanded with 10-15 new buildings. Communication field expanded. Approximately five probable fishbone antennas can be identified. Dome appears on Building 1.

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Observation

Clear. Possible antenna observed on roof of Building 2. Two masts observed in Area C. Communications field expanded with approximately four additional fishbone antennas identified. No other change apparent.

Clear. No change apparent.

Clear. No change apparent.

Haze and scattered clouds. No change observed.

Clear. Dome appears on ground next to Building 2.

The construction of the Ulan Ude FLIM FLAM antenna tracking buildings appeared complete in September 1961. They cannot be negated on KEYHOLE photography. Poor photography precluded the identification of antennas, domes, and masts until February 1964; therefore, the actual construction timing cannot be determined for these items. What can be determined; however, is that a dome was present on the roof of Building 1 in February 1964; a possible antenna was present on Building 2 in June 1964; a dome was placed on the ground next to Building 2 between August and September 1964; and additional communication antennas were added between February 1964 and June 1964.

MAPS AND CHARTS: U. S. Air Target Chart, Series 200, Sheet 250-1 HL
and 2 HL, scale 1:200,000

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4. This project is not considered to

Enclosures:

- 1 - One (1) line drawing
(CIA/PID/MEB-P-899/64)
- 2 - One (1) photo
(CIA/PID/MEB-P-900/64)

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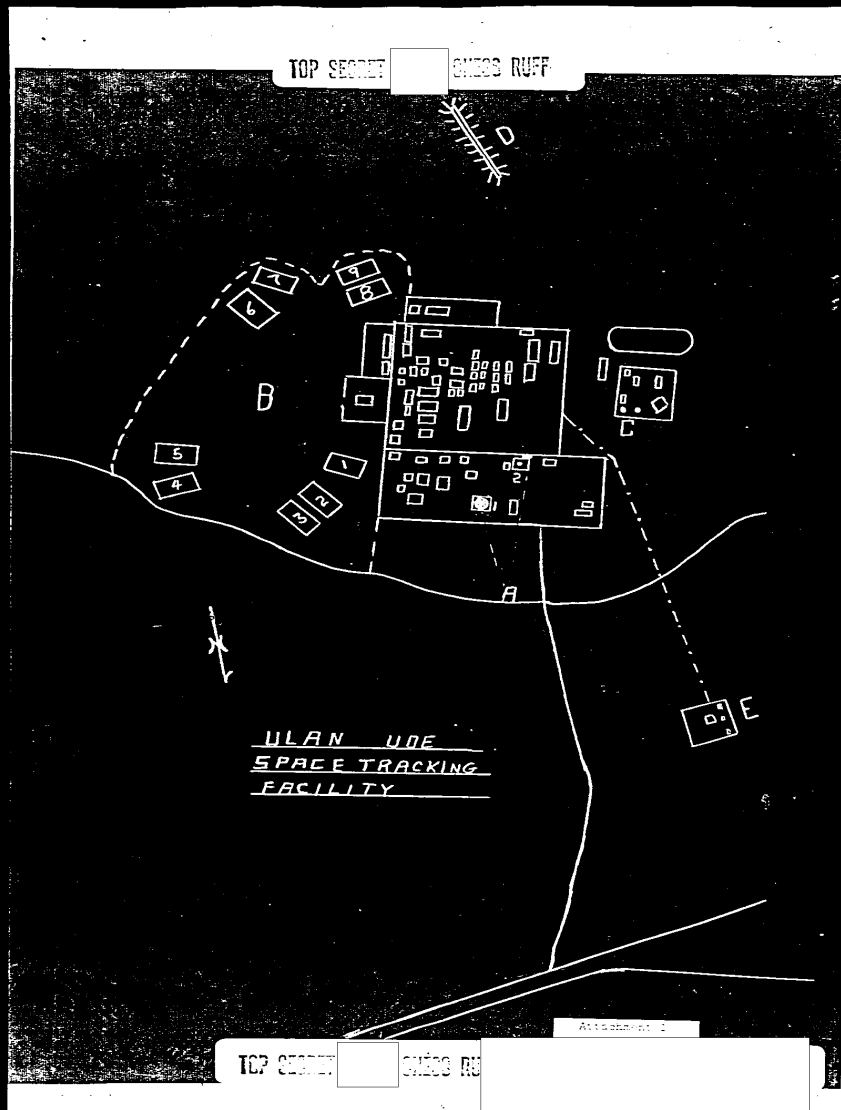
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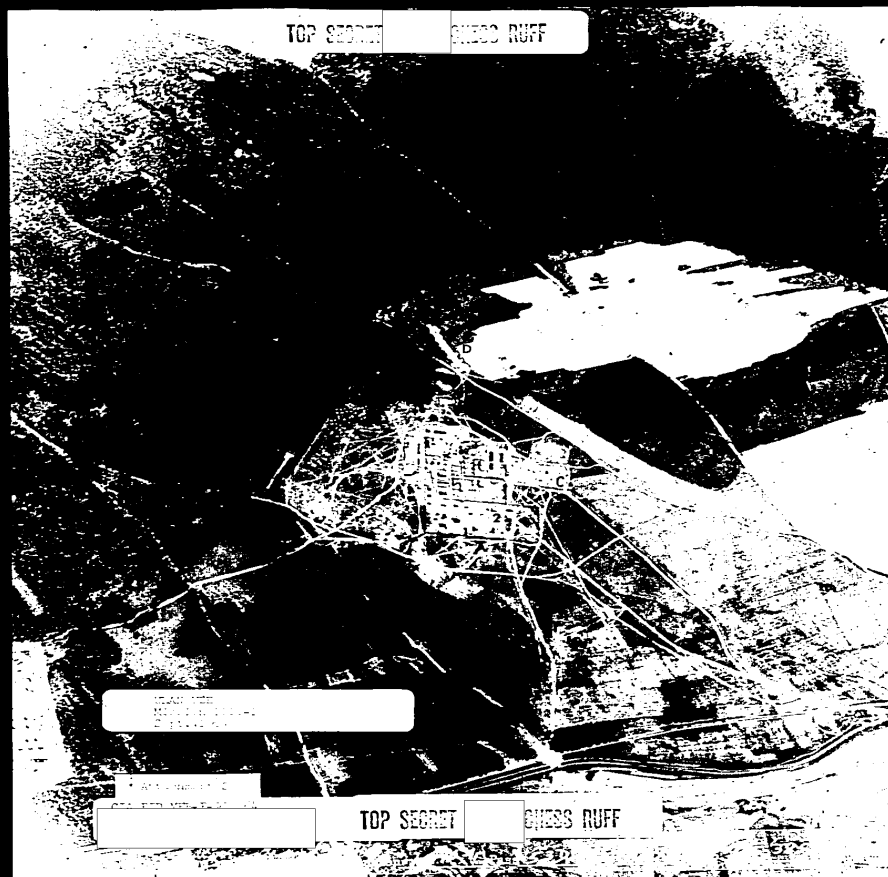
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